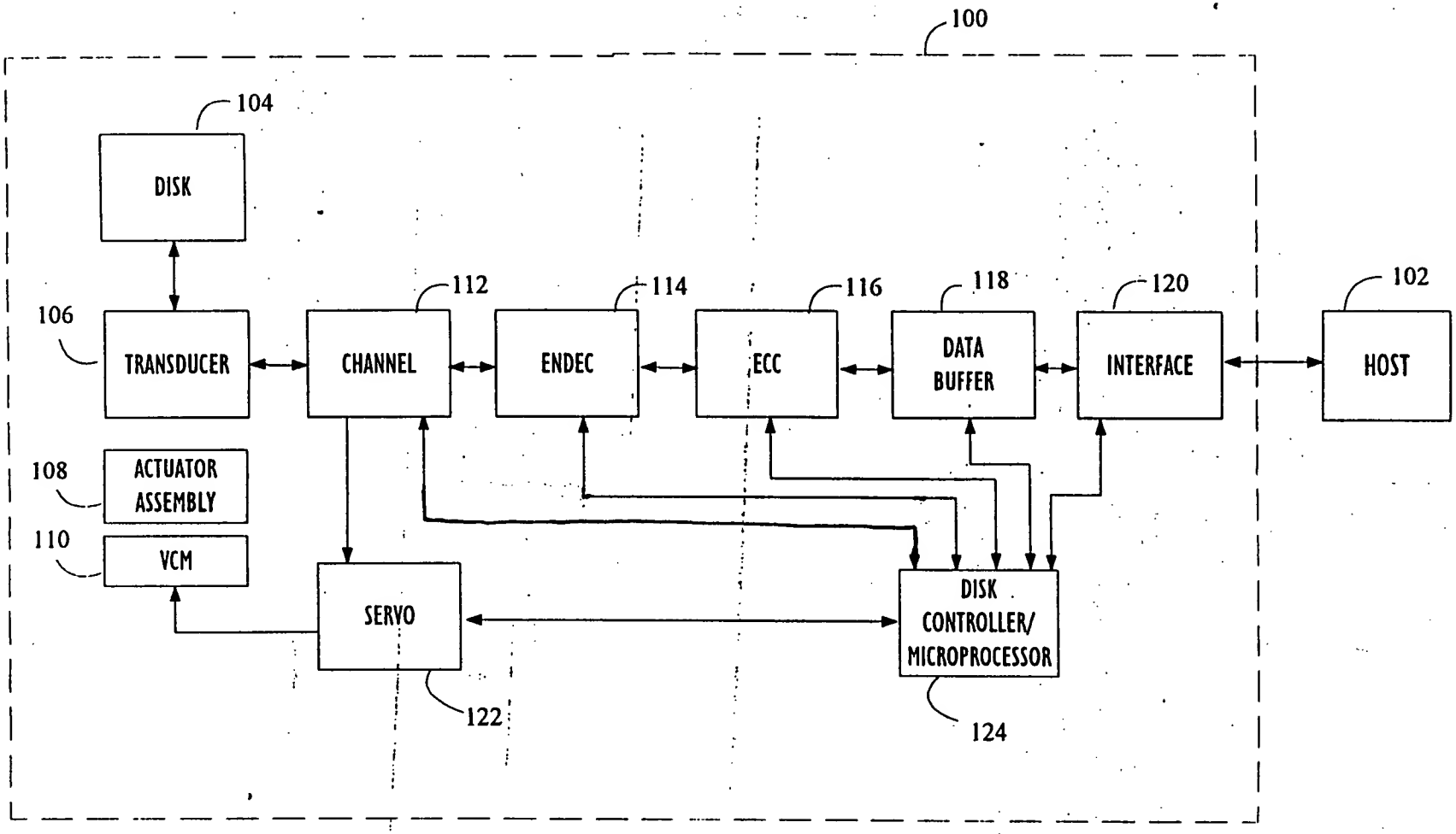
100
104
DISK
106
TRANSDUCER
112
CHANNEL
114
ENDEC
116
ECC
118
DATA BUFFER
120
INTERFACE
102
HOST
108
ACTUATOR ASSEMBLY
110
VCM
SERVO
122
DISK CONTROLLER/ MICROPROCESSOR
124

FIG. 1

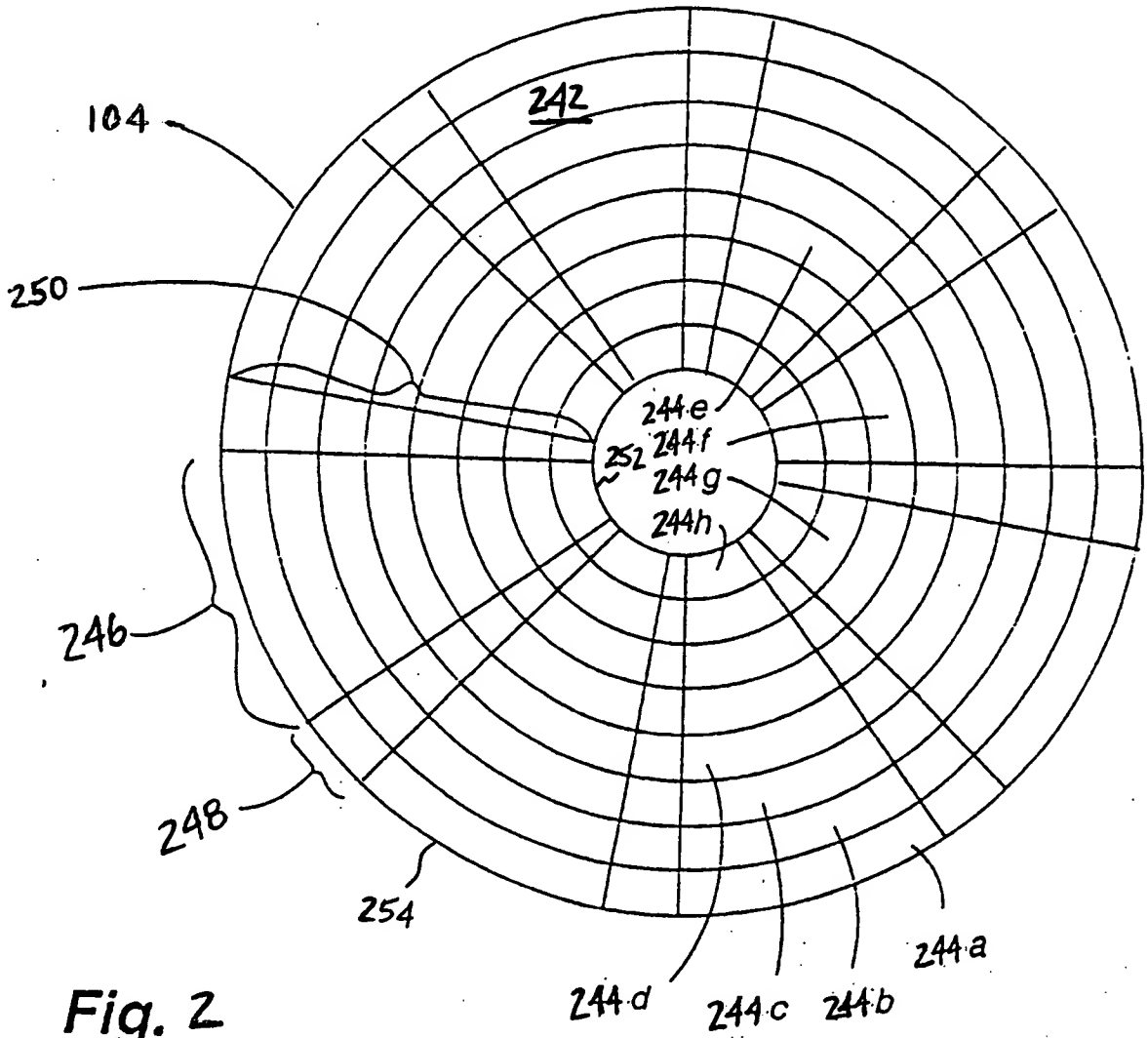
104
242
250
244e
244f
252
244g
244h
246
248
254
244a
244b
244c
244d

Fig. 2

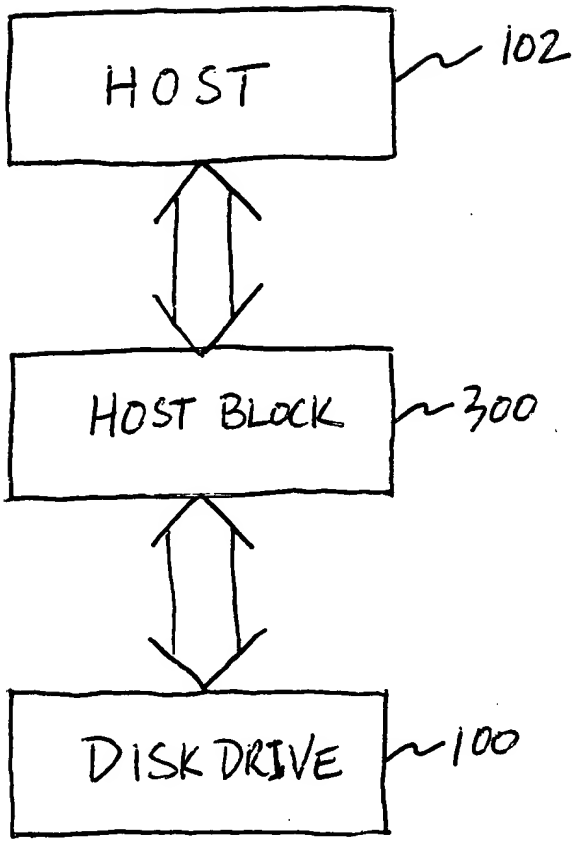

FIGURE 3

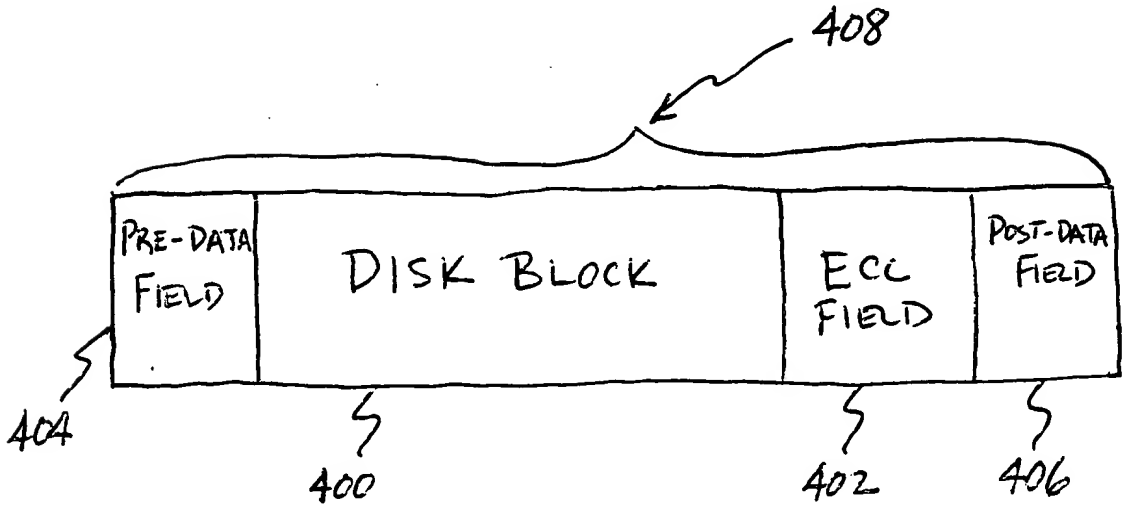

FIGURE 4

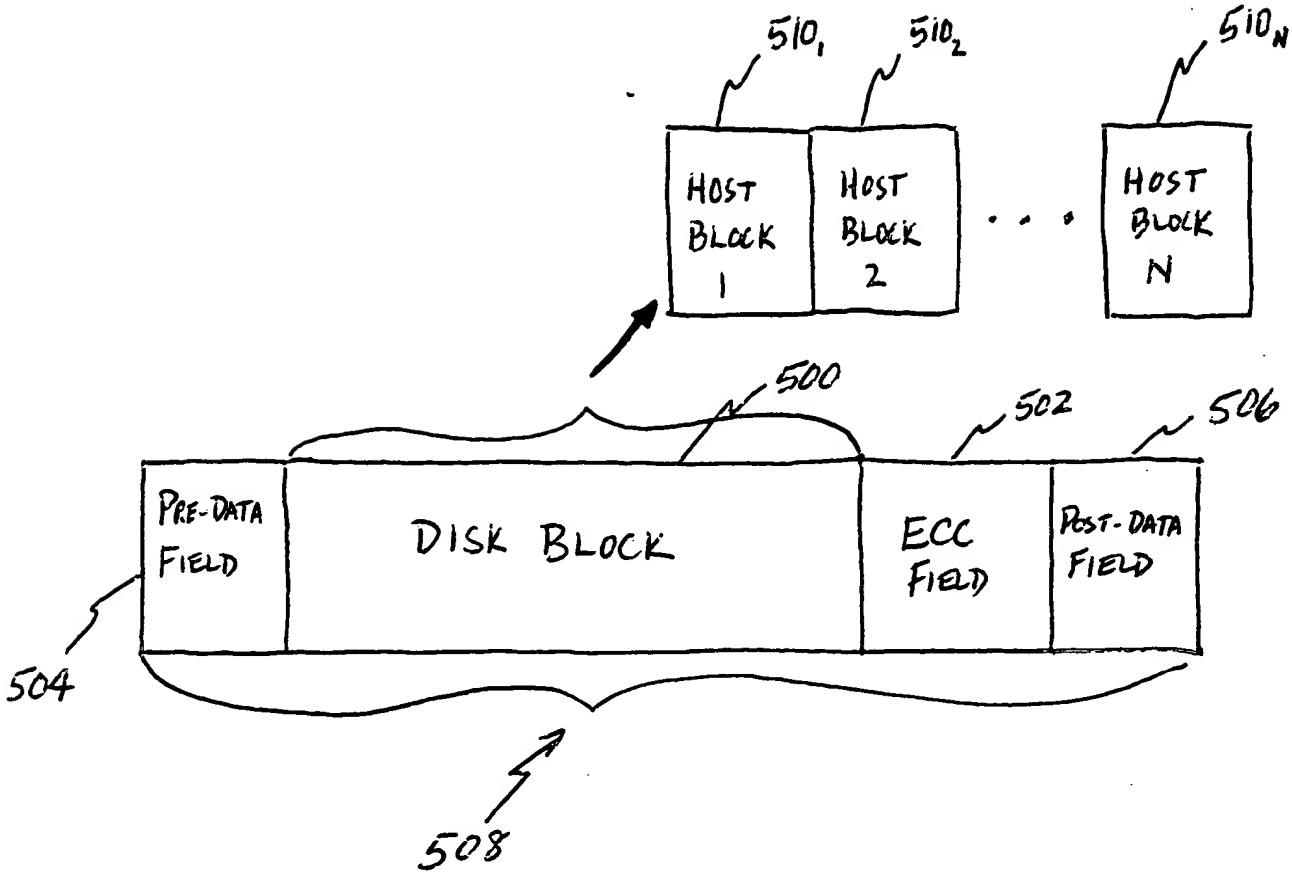
510₁
510₂
510N
HOST BLOCK 1
HOST BLOCK 2
HOST BLOCK N
500
502
506
PRE-DATA FIELD
DISK BLOCK
ECC FIELD
POST-DATA FIELD
504
508

FIGURE 5

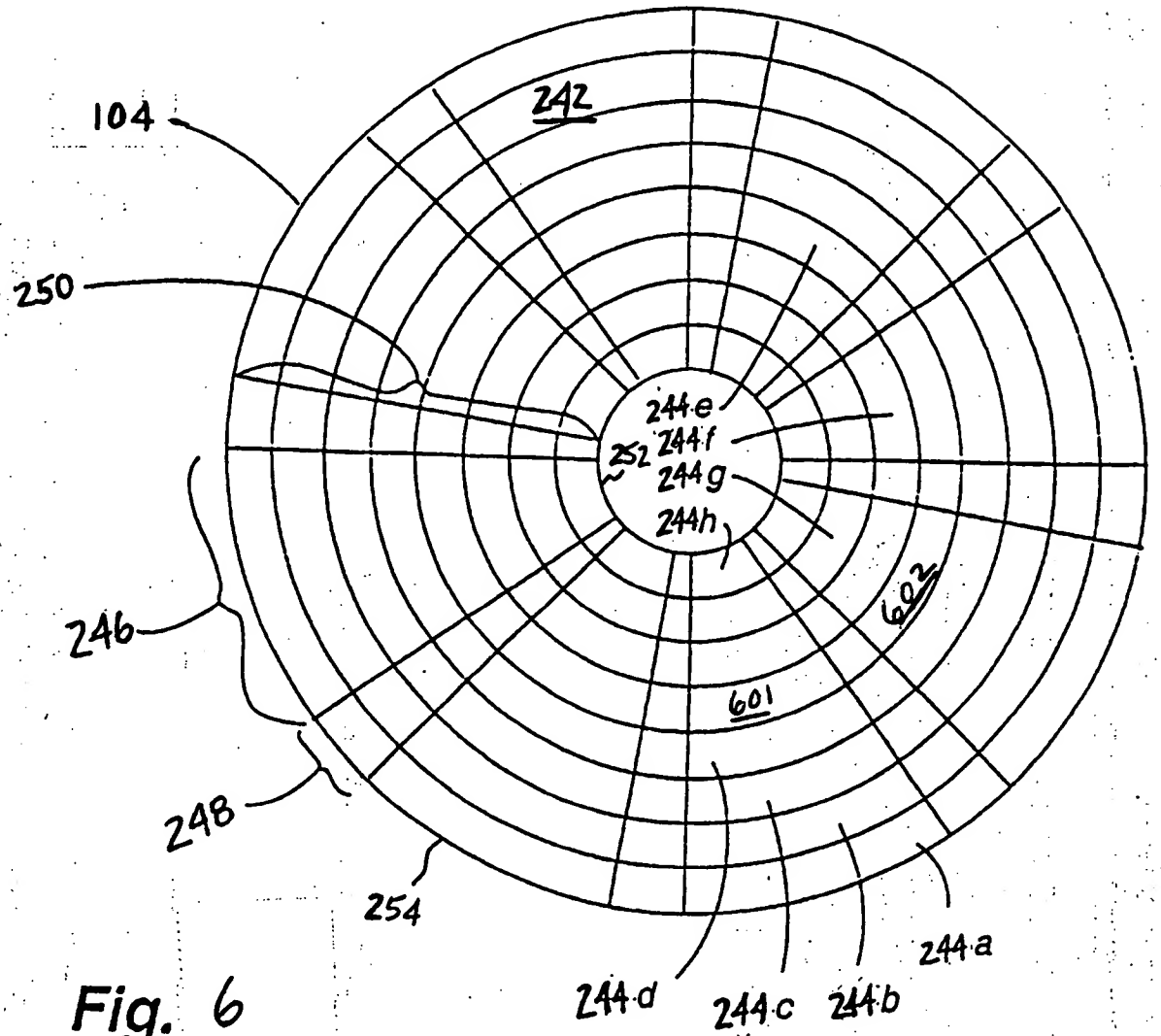
104
242
250
244e
244f
252
244g
244h
602
246
601
248
254
244a
244d
244c
244b

Fig. 6

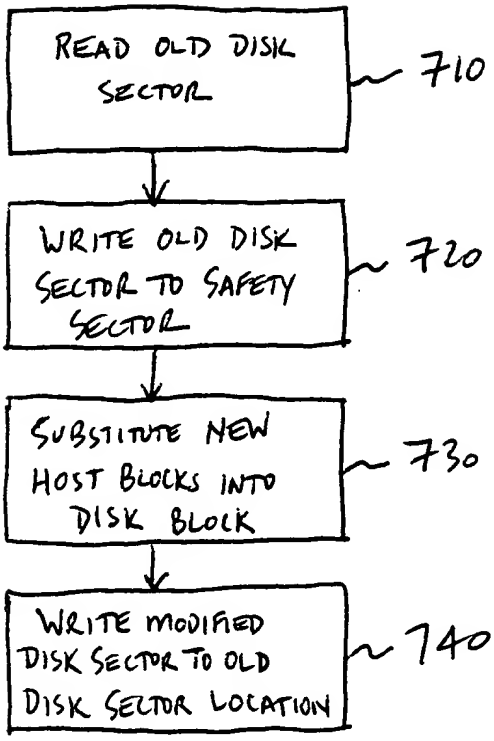
READ OLD DISK SECTOR
710
WRITE OLD DISK SECTOR TO SAFETY SECTOR
720
SUBSTITUTE NEW HOST BLOCKS INTO DISK BLOCK
730
WRITE MODIFIED DISK SECTOR TO OLD DISK SECTOR LOCATION
740

FIGURE 7